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physical examination of several thousand garment workers. As a result of these physical examinations the Public Health Service is now in possession of rather precise data, obtainable so well in no other way, as to the effects of this occupation upon the health of the individual, the average physical condition of garment workers, the types of diseases, and disabilities from which the workers suffer. The service is, therefore, in a position to formulate useful recommendations for the sanitary improvement of this industry. These studies the service hopes to extend to other industries as facilities permit.

We see from the foregoing the great value of physical examinations of workers in obtaining accurate data as to the effects of industries upon health. The general introduction of systems of medical supervision, with periodic physical examinations in various industries, will result in the collection of a body of similar data, which, when studied, will form a logical basis for practical recommendations to make all such industries safe from a health standpoint. In other words, the medical supervision of workers, if generally introduced, will point clearly the way to enable each industry to sanitize itself. When we have reached this point it will be found that the enormous economic loss caused in industries by preventable diseases and disabilities will have largely disappeared.

PLAGUE-ERADICATIVE WORK.

CALIFORNIA.

The following report of plague eradication work in California for the week ended October 31, 1914, has been received from Surg. Long, of the United States Public Health Service, in charge of the work:

SAN FRANCISCO, CAL.		SAN FRANCISCO, CAL.—Continued.	
Premises inspected.....	1,820	RATS TAKEN FROM STEAMER (not included above).	
Premises destroyed.....	8	Steamer <i>Hardy</i> :	
Nuisances abated.....	343	<i>Mus alexandrinus</i>	22
Poisons placed.....	16,800	<i>Mus rattus</i>	6
Average number of traps set daily.....	1,317	PORT COSTA, CAL.	
RATS COLLECTED AND EXAMINED FOR PLAGUE.		Rats trapped in sugar refinery.....	3
Collected.....	562	Rats trapped in warehouses.....	4
Examined.....	420	Rats trapped on water front.....	2
Found infected.....	None.	Rats examined.....	9
RATS IDENTIFIED.		RATS IDENTIFIED.	
<i>Mus norvegicus</i>	251	<i>Mus alexandrinus</i>	3
<i>Mus musculus</i>	93	<i>Mus musculus</i>	5
<i>Mus alexandrinus</i>	107	<i>Mus norvegicus</i>	1
<i>Mus rattus</i>	111	<i>Mus rattus</i>	5

Record of plague infection.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1908.	Oct. 23, 1908.	None.....	398 rats.
Oakland.....	Aug. 9, 1911.	Dec. 1, 1908.	.....do.....	126 rats.
Berkeley.....	Aug. 28, 1907.	None.....	.....do.....	None.
Los Angeles.....	Aug. 11, 1908.	.....do.....	Aug. 21, 1908.	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley).	Sept. 24, 1909.	Oct. 17, 1909 (Wood rat).	Aug. 7, 1914.	286 squirrels, 1 wood rat.
Contra Costa.....	May 17, 1914.	None.....	Aug. 25, 1914.	1,563 squirrels.
Fresno.....	None.....	.....do.....	Oct. 27, 1911.	1 squirrel.
Merced.....	.....do.....	.....do.....	July 12, 1911.	5 squirrels.
Monterey.....	.....do.....	.....do.....	Apr. 10, 1914.	6 squirrels.
San Benito.....	June 4, 1913.	.....do.....	Sept. 26, 1914.	36 squirrels.
San Joaquin.....	Sept. 18, 1911.	.....do.....	Aug. 28, 1911.	18 squirrels.
San Luis Obispo.....	None.....	.....do.....	Jan. 29, 1910.	1 squirrel.
Santa Clara.....	Aug. 31, 1910.	.....do.....	July 23, 1913.	25 squirrels.
Santa Cruz.....	None.....	.....do.....	May 17, 1910.	3 squirrels.
Stanislaus.....	.....do.....	.....do.....	June 2, 1911.	13 squirrels.

Squirrels collected and examined for plague.

Contra Costa County.....	157
San Benito County.....	44
Alameda County.....	28
Total.....	229
Found infected.....	None.

Other animals collected and examined for plague.

Contra Costa County.....	1 weasel.
Do.....	1 rabbit.
Found infected.....	None.

Ranches inspected and hunted over.

Contra Costa County.....	36
San Benito County.....	11
Alameda County.....	5
Total.....	52

Operations on water front.

Vessels inspected for rat guards.....	19
Reinspections made on vessels.....	10
New rat guards procured.....	12
Defective rat guards repaired.....	7
Vessels on which cargo was inspected.....	2

	Condition.	Rat evidence.
Steamers Admiral Dewey and Governor from Seattle:		
380 cases canned milk and fruit, apples, eggs, etc.....	O. K.....	None.
50 rolls paper.....	O. K.....	None.
650 sacks flour, wheat, meal, sugar, rice, and old rags.....	O. K.....	None.

Rats trapped on wharves and water front.....	15
Rats trapped on vessels.....	13
Traps set on wharves and water front.....	138
Traps set on vessels.....	163
Vessels trapped on.....	17
Dead rats taken from vessels after fumigation.....	28
Vessels searched for dead rats after fumigation.....	1
Poisons placed on water front (pieces).....	9,000
Bait used on water front and vessels; bacon (pounds).....	6
Amount of bread used in poisoning water front (loaves).....	30
Pounds of poison used on water front.....	15

Operations are being carried on under Federal supervision on the following-named properties, labor and material being furnished:

Names.	Location.	Acres treated.
Poisoned grain:		
J. Nichols estate.....	Contra Costa County.....	300
Burg Bros. Ranch.....	do.....	140
East Shore Co.....	do.....	290
Standard Oil Co.....	do.....	50
San Pablo Quarries.....	do.....	40
Peoples Water Co.....	do.....	1,497
M. B. Lemos Ranch.....	do.....	400
J. Lucas Ranch.....	do.....	599
Madison Ranch.....	do.....	300
M. Hopkins.....	do.....	380
Sullivan Ranch.....	do.....	246
T. Boeger Ranch.....	do.....	805
A. Joaquin.....	do.....	350
J. M. Holloway.....	Merced County.....	720
L. Brouse.....	do.....	360
Destructors:		
Southern Pacific Co.....	do.....	(1)

¹ 2½ miles treated.

Miles of railroad right of way inspected..... 2½
Holes treated..... 2,456

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, San Joaquin, Monterey, Merced, Stanislaus, San Benito, Santa Cruz, and Santa Clara.

LOUISIANA—NEW ORLEANS.

The following report of plague-eradication work at New Orleans for the week ended November 7, 1914, has been received from Asst. Surg. Gen. Rucker, of the United States Public Health Service, in charge of the work:

OUTGOING QUARANTINE.		DESTINATION AND NUMBER OF CARS INSPECTED WEEK ENDING NOVEMBER 7—continued.	
Vessels fumigated with sulphur.....	51	Carolina, North.....	12
Vessels fumigated with carbon monoxide....	13	Carolina, South.....	4
Vessels fumigated with hydrocyanic gas....	2	Colorado.....	15
Pounds of sulphur used.....	15,082	Connecticut.....	1
Coke consumed in carbon monoxide fumi- gation (pounds).....	22,500	Delaware.....	1
Pounds of potassium cyanide used in hydro- cyanic gas fumigation.....	170	Florida.....	32
Pounds of sodium carbonate used in hydro- cyanic gas fumigation.....	170	Georgia.....	46
Pounds of sulphuric acid used in hydro- cyanic gas fumigation.....	280	Illinois.....	496
Clean bills of health issued.....	23	Indiana.....	32
Foul bills of health issued.....	3	Iowa.....	15
OVERLAND FREIGHT INSPECTION.		Kansas.....	4
Cars inspected and passed.....	1,022	Kentucky.....	43
Cars rat proofed.....	2,252	Louisiana.....	1,293
Cars condemned.....	11	Maryland.....	3
Total cars inspected.....	3,285	Massachusetts.....	8
DESTINATION AND NUMBER OF CARS INSPECTED WEEK ENDING NOVEMBER 7.		Michigan.....	36
Alabama.....	87	Minnesota.....	90
Arkansas.....	19	Mississippi.....	489
California.....	30	Missouri.....	79
		Nebraska.....	4
		New York.....	20
		Ohio.....	57
		Oklahoma.....	11
		Pennsylvania.....	19
		Tennessee.....	66

DESTINATION AND NUMBER OF CARS INSPECTED
WEEK ENDING NOVEMBER 7—continued.

Texas.....	31
Virginia.....	22
West Virginia.....	3
Wisconsin.....	15
District of Columbia.....	1
Canada.....	1

FIELD OPERATIONS.

Rats trapped.....	7,321
Premises disinfected.....	346
Premises inspected.....	9,720
Notices served.....	1,906

BUILDINGS RAT-PROOFED.

By elevation.....	24
By marginal concrete wall.....	149
By concrete floor and walls.....	359
By minor repairs.....	30

BUILDINGS RAT-PROOFED—continued.

Square yards of concrete aid.....	23,182
Total buildings rat-proofed.....	566
Buildings rat-proofed to date.....	3,112
Number of abatements.....	1,085
Number of abatements to date.....	13,289
Number of dead inspected (discontinued Nov. 11).....	66

LABORATORY OPERATIONS.

Rats examined.....	6,588
Mus norvegicus.....	3,396
Mus alexandrinus.....	169
Mus rattus.....	72
Mus musculus.....	3,194
Unclassified, putrid.....	255
Total rodents received at laboratory.....	6,841
Number of suspicious rats.....	16
Plague rats confirmed.....	2

Plague rats.

Case No.	Address.	Captured.	Diagnosis confirmed.	Treatment of premises.
192	2002 Painters Street.....	Oct. 26..	Nov. 1..	Summary destruction of rat harborage. Disinfection. Intensive trapping. Rat-proofing initiated. Intensive trapping.
193	South Peters and Natchez Alley, found dead in street.	Nov. 6..	Nov. 6..	

Total number of rodents captured to Nov. 7.....	142,831
Total number of rodents examined to Nov. 7.....	120,502

Rodent cases to Nov. 7, by species:

Mus rattus.....	10
Mus alexandrinus.....	3
Mus musculus.....	1
Mus norvegicus.....	179

Total rodent cases to Nov. 7.....	193
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WASHINGTON—SEATTLE.

The following reports of plague-eradivative work at Seattle have been received from Surg. Lloyd, of the United States Public Health Service, in charge of the work:

Week Ended Oct. 24, 1914.

RAT-PROOFING.

New buildings inspected.....	72
Basements concreted, new buildings (23,480 square feet).....	25
Floors concreted, new buildings (19,360 square feet).....	14
Yards, etc., concreted, new buildings (2,489 square feet).....	5
Sidewalks concreted, 45,850 square feet.	
Total concrete laid, new structures, 91,170 square feet.	
New buildings elevated.....	72

RAT-PROOFING—continued.

Old buildings inspected.....	2
Old buildings rat-proofed.....	1
Wooden floors removed.....	1
Floors concreted, old buildings (3,750 square feet).....	1
Buildings razed.....	2

WATER FRONT.

Vessels inspected and histories recorded.....	4
Vessels fumigated.....	7
Sulphur used, pounds.....	1,485

WATER FRONT—continued.

Vessels searched for dead rats.....	4
New rat guards installed.....	12
Defective rat guards repaired.....	14
Fumigation certificates issued.....	4
Canal Zone certificates issued.....	3
Port sanitary statements issued.....	40

LABORATORY AND RODENT OPERATIONS.

Dead rodents received.....	38
Rodents trapped and killed.....	274
Rodents recovered after fumigation.....	77
Total.....	389

LABORATORY AND RODENT OPERATIONS—con.

Rodents examined for plague infection.....	247
Rodents proven plague infected.....	1
Blocks poisoned.....	22
Poison distributed, pounds.....	70

CLASSIFICATION OF RODENTS.

Mus rattus.....	14
Mus alexandrinus.....	119
Mus norvegicus.....	141
Mus musculus.....	38
Not classified.....	77

The usual day and night patrol was maintained to enforce rat guarding and fending.

Rodents examined in Tacoma.

Mus norvegicus trapped.....	26
Mus norvegicus found dead.....	9
Total.....	35

Week Ended Oct. 31, 1914.

RAT PROOFING.

New buildings inspected.....	64
Basements concreted, new buildings (45,120 square feet).....	47
Floors concreted, new buildings (13,212 square feet).....	8
Yards, etc., concreted, new buildings (1,600 square feet).....	2
Sidewalks concreted (square feet).....	27,120
Total concrete laid, new structures, 87,052 square feet.....	
New buildings elevated.....	4
Premises rat proofed, new buildings.....	55
Old buildings inspected.....	2
Old buildings rat proofed.....	1
Floors concreted, old buildings (5,000 square feet).....	1
Openings screened, old buildings.....	8
Wooden floors removed.....	1
Wire screening used (square feet).....	860
Buildings razed.....	2

WATER FRONT.

Vessels inspected and histories recorded.....	7
Vessels fumigated.....	7

WATER FRONT—continued.

Sulphur used (pounds).....	3,250
New rat guards installed.....	16
Vessels searched for dead rats.....	5
Dead rats recovered after fumigation.....	44
Fumigation certificates issued.....	7
Canal Zone certificates issued.....	2
Port sanitary statements issued.....	51

LABORATORY AND RODENT OPERATIONS.

Dead rodents received.....	44
Rodents trapped and killed.....	365
Total.....	409
Rodents examined for plague infection.....	314
Rodents proven plague infected.....	1
Blocks poisoned.....	18
Poison distributed (pounds).....	63

CLASSIFICATION OF RODENTS.

Mus rattus.....	46
Mus alexandrinus.....	95
Mus norvegicus.....	196
Mus musculus.....	72

The usual day and night patrol was maintained to enforce raguarding and fending.

Rodents examined in Tacoma.

Mus norvegicus trapped.....	27
Mus norvegicus found dead.....	7
Mus alexandrinus trapped.....	1
Total.....	35
Rodents examined for plague infection.....	35
Rodents proven plague infected.....	None.

HAWAII.

The following reports of plague-eradivative work in Hawaii have been received from Surgeon Trotter, of the United States Public Health Service:

Honolulu.

WEEK ENDED OCT. 24, 1914.

Total rats and mongoose taken.....	450	Classification of rat killed by sulphur dioxide:	
Rats trapped.....	440	<i>Mus alexandrinus</i>	1
Mongoose trapped.....	9	Average number of traps set daily.....	1,085
Rats found dead.....	0	Cost per rat destroyed.....cents..	18½
Rats killed by sulphur dioxide.....	1	Last case rat plague Aiea, 9 miles from Honolulu,	
Examined microscopically.....	383	April 12, 1910.	
Plague infection.....	0	Last case human plague, Honolulu, July 12, 1910.	
Classification of rats trapped:		Last case rat plague Kalopa stable, Paauhau,	
<i>Mus alexandrinus</i>	205	Hawaii, August 29, 1914.	
<i>Mus musculus</i>	169	Last case human plague, Paauhau Landing,	
<i>Mus norvegicus</i>	55	Hawaii, August 17, 1914.	
<i>Mus rattus</i>	11		

Hilo.

WEEK ENDED OCT. 17, 1914.

Rats and mongoose taken.....	2,183	Classification of rats trapped and found dead:	
Rats trapped.....	2,102	<i>Mus norvegicus</i>	487
Rats found dead.....	6	<i>Mus alexandrinus</i>	315
Mongoose taken.....	75	<i>Mus rattus</i>	560
Rats and mongoose examined macroscopically.....	2,183	<i>Mus musculus</i>	746
Rats and mongoose examined microscopically.....	0	Last case of rat plague, Paauhau Sugar Co., Aug. 29 1914.	
Rats and mongoose examined bacteriologically.....	0	Last case of human plague, Paauhau Sugar Co., Aug. 16 1914.	
Rats and mongoose plague infected.....	0		